PHILIPS DF 96

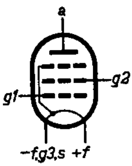
PENTODE for use as R.F. or I.F. amplifier in battery receivers
PENTHODE pour utilisation en amplificatrice H.F. ou M.F. dans des appareils-batterie
PENTODE zur Verwendung als HF- oder ZF-Verstärker in Batteriegeräten

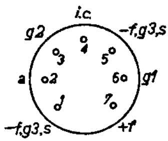
Heating : direct by D.C.;
parallel or series supply
Chauffage: direct par C.C.;
alimentation parallèle ou série
Heizung : direkt durch Gleichstrom;
Parallel- oder Serienspeisung

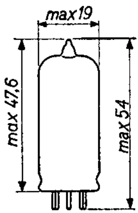
Parallel supply:
Alimentation parallèle:
Parallelspeisung:
V_f = 1,4 V
I_f = 25 mA

Series supply:
Alimentation série:
Serienspeisung:
V_f = 1,3 V

Dimensions in mm
Dimensions en mm
Abmessungen in mm







Base, culot, Sockel: Miniature

Capacitances
Capacités
Kapazitäten

C_{ag1} < 0,01 pF
C_a = 7,8 pF
C_{g1} = 3,3 pF

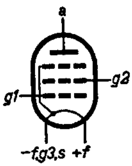
PHILIPS DF 96

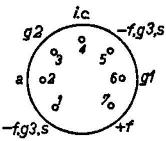
PENTODE for use as R.F. or I.F. amplifier in battery receivers
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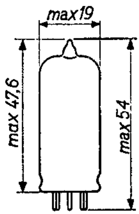
Heating : direct by D.C.; parallel or series supply
Chauffage: direct par C.C.; alimentation parallèle ou série
Heizung : direkt durch Gleichstrom; Parallel- oder Serienspeisung

Parallel supply: Alimentation parallèle: Parallelspeisung:	V_f = 1,4 V I_f = 25 mA
Series supply: Alimentation série: Serienspeisung:	V_f = 1,3 V

Dimensions in mm
Dimensions en mm
Abmessungen in mm







Base, culot, Sockel: Miniature

Capacitances Capacités Kapazitäten	C_{ag1} < 0,01 pF C_a = 7,8 pF C_{g1} = 3,3 pF

Operating characteristics for use as R.F. or I.F. amplifier
Caractéristiques d'utilisation en amplificatrice H.F. ou M.F.
Betriebsdaten als HF- oder ZF-Verstärker

V_a[1]	=	85		64		V
R_{g2}	=	39		0		kΩ
V_{g1}	=	0	-5,5	0	-4,1	V
V_{g2}	=	64	85	64	64	V
I_a	=	1,65	-	1,65	-	mA
I_{g2}	=	0,55	-	0,55	-	mA
S	=	850	10	850	10	µA/V
R_i	=	1,0	>10	0,7	>10	MΩ
R_{eq}	=	14	-	14	-	kΩ
μ_{g2g1}	=	18		18		

Limiting values
Caractéristiques limites
Grenzdaten

V_b	= max.	120	V
V_b	= max.	150	V[2]
V_a	= max.	120	V
W_a	= max.	0,25	W
V_{g2}	= max.	90	V
W_{g2}	= max.	0,1	W
I_k	= max.	2,2	mA
V_{g1} (I_{g1} = +0,3µA)	= max.	0	V
R_{g1}	= max.	3	MΩ

[1]) Based on a battery voltage of 90 or 67.5 V reduced by the negative bias for the output valve

Se basant sur une tension de batterie de 90 ou 67,5 V, diminuée de la polarisation négative du tube de sortie

Basiert auf einer Batteriespannung von 90 oder 67,5 V, verringert um die negative Vorspannung der Endröhre

[2]) Absolute max. value
Valeur max. absolue
Absoluter Grenzwert

Operating characteristics for use as R.F. or I.F. amplifier
Caractéristiques d'utilisation en amplificatrice H.F. ou M.F.
Betriebsdaten als HF- oder ZF-Verstärker

V_a	=	85 1)		64 1)		V
R_{g2}	=	39		0		kΩ
V_{g1}	=	0	-5,5	0	-4,1	V
V_{g2}	=	64	85	64	64	V
I_a	=	1,65	-	1,65	-	mA
I_{g2}	=	0,55	-	0,55	-	mA
S	=	850	10	850	10	µA/V
R_i	=	1,0	>10	0,7	>10	MΩ
R_{eq}	=	14	-	14	-	kΩ
μ_{g2g1}	=	18	-	18	-	

V_a	=	45		V
V_{g2}	=	45		V
V_{g1}	=	0	-2,95	V
I_a	=	0,85	-	mA
I_{g2}	=	0,28	-	mA
S	=	650	10	µA/V
R_i	=	1,0	>10	MΩ
μ_{g2g1}	=	18	-	
R_{eq}	=	12	-	kΩ

Limiting values
Caractéristiques limites
Grenzdaten

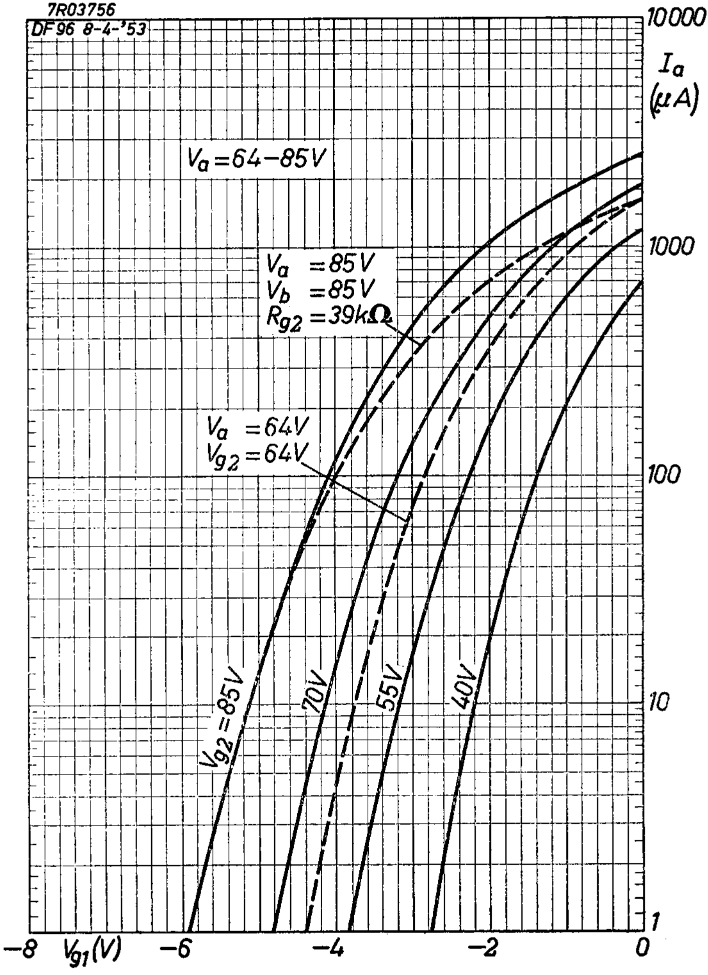
V_b	= max. 120 V		V_{g2}	= max.	90 V
V_b	= max. 150 V 2)		W_{g2}	= max.	0,1 W
V_a	= max. 120 V		I_k	= max.	2,2 mA
W_a	= max. 0,25 W		V_{g1} (I_{g1} = +0,3µA)	= max.	0 V
			R_{g1}	= max.	3 MΩ

1) Based on a battery voltage of 90 or 67.5 V reduced by the negative bias for the output tube
Se basant sur une tension de batterie de 90 ou 67,5 V diminuée de la polarisation négative du tube de sortie
Basiert auf einer Batteriespannung von 90 oder 67,5 V verringert um die negative Vorspannung der Endröhre

2) Absolute max. value
Valeur max. absolue
Absoluter Grenzwert

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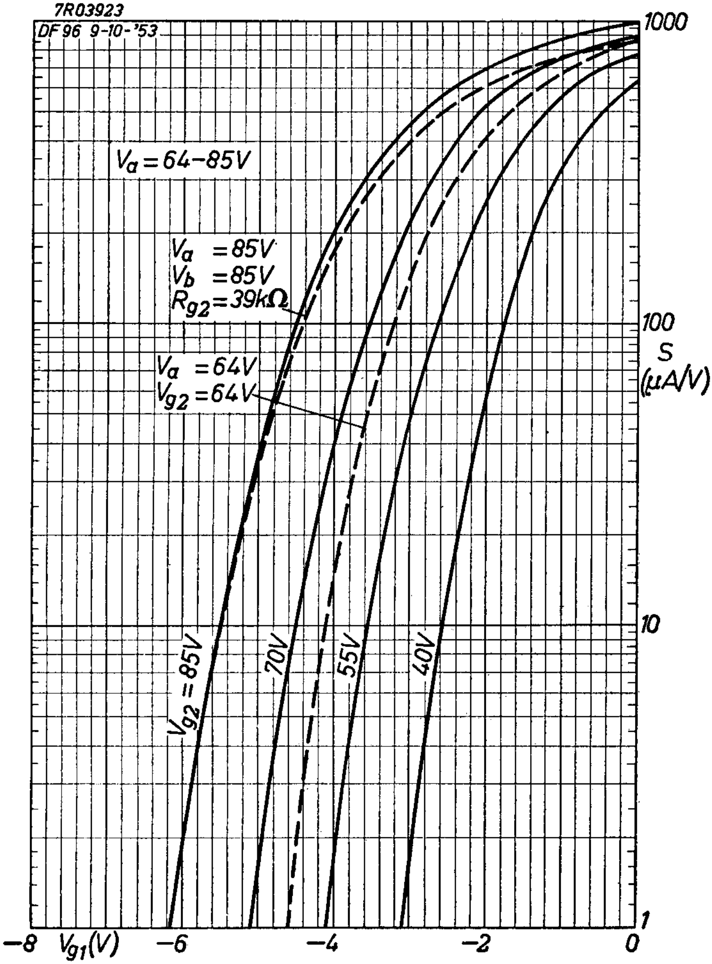
DF 96



10.10.1953

A

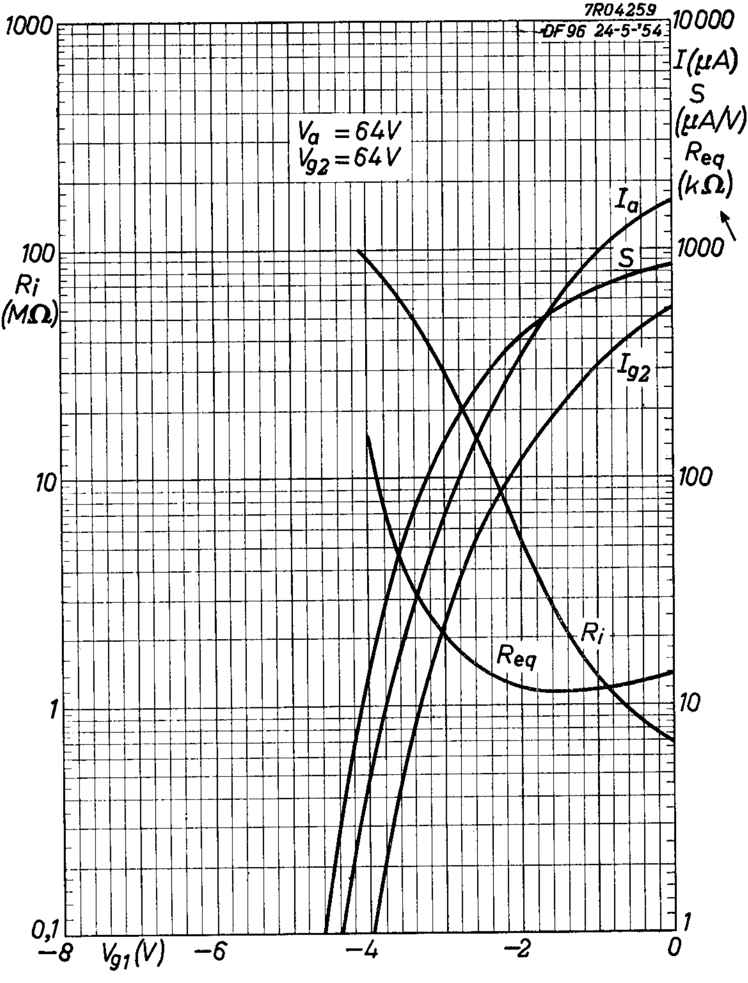
DF 96 PHILIPS



B

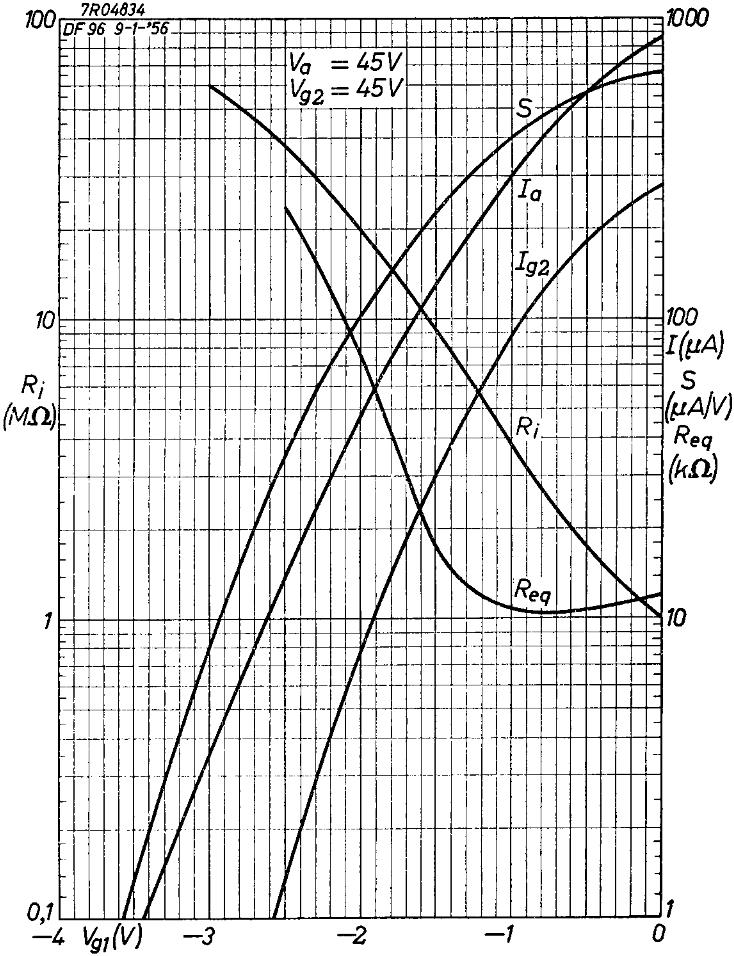
PHILIPS

DF 96



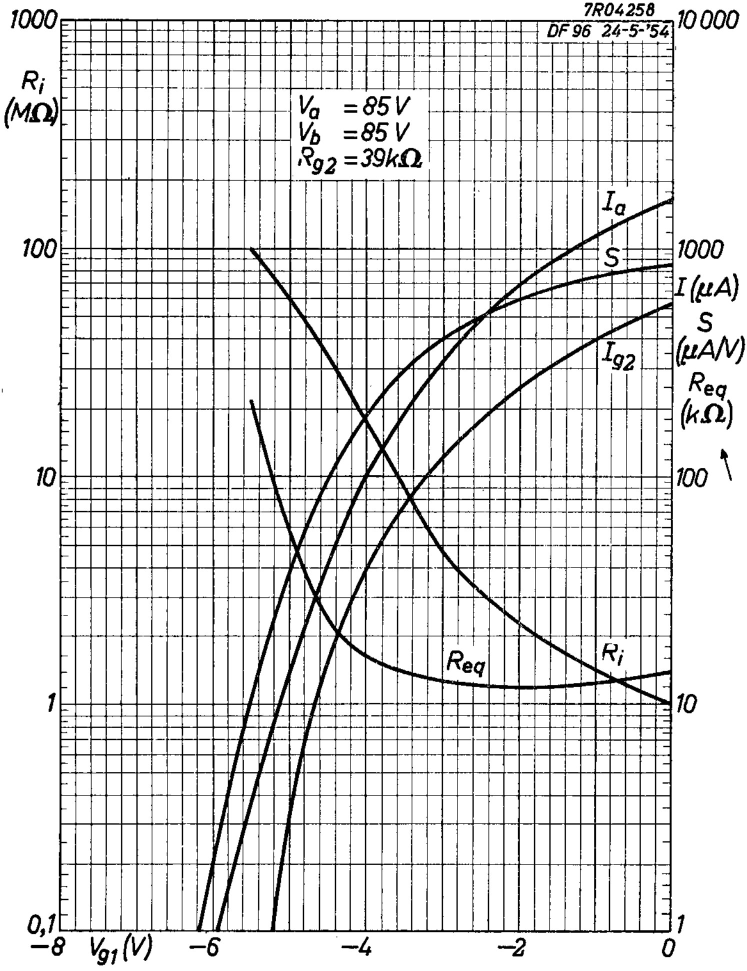
6.6.1954

C


7R04834
DF 96 9-1-'56
$V_a = 45V$
$V_{g2} = 45V$
S
I_a
I_{g2}
R_i
R_{eq}
100
10
1
0,1
R_i (MΩ)
1000
100
10
1
I (μA)
S (μA/V)
R_{eq} (kΩ)
−4
V_{g1} (V)
−3
−2
−1
0

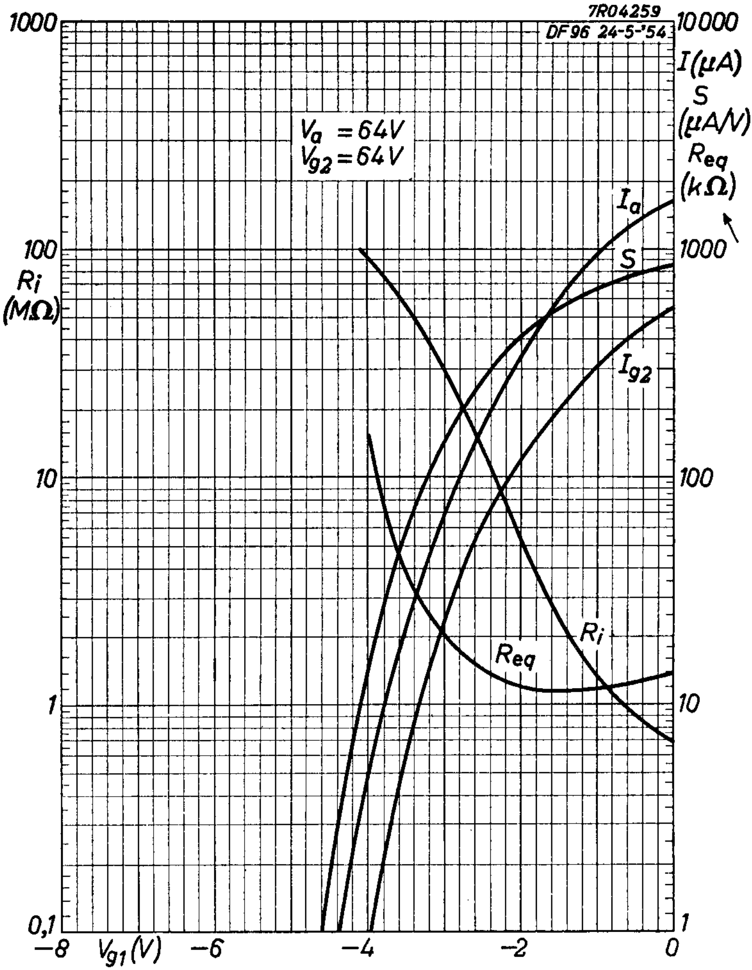
DF 96

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D

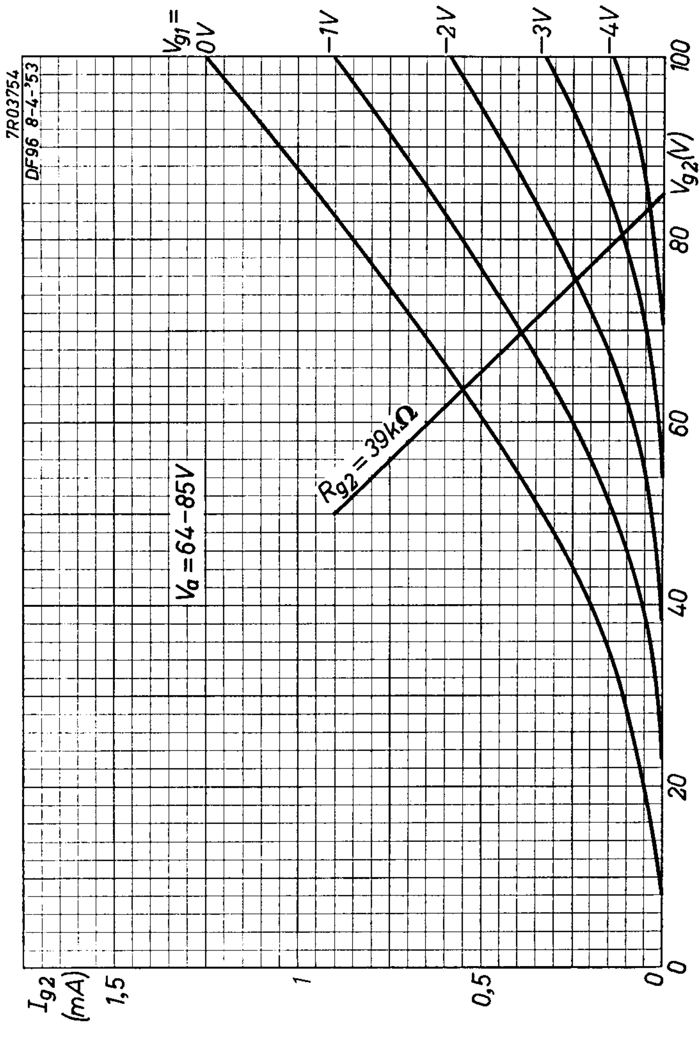
DF 96 PHILIPS



D

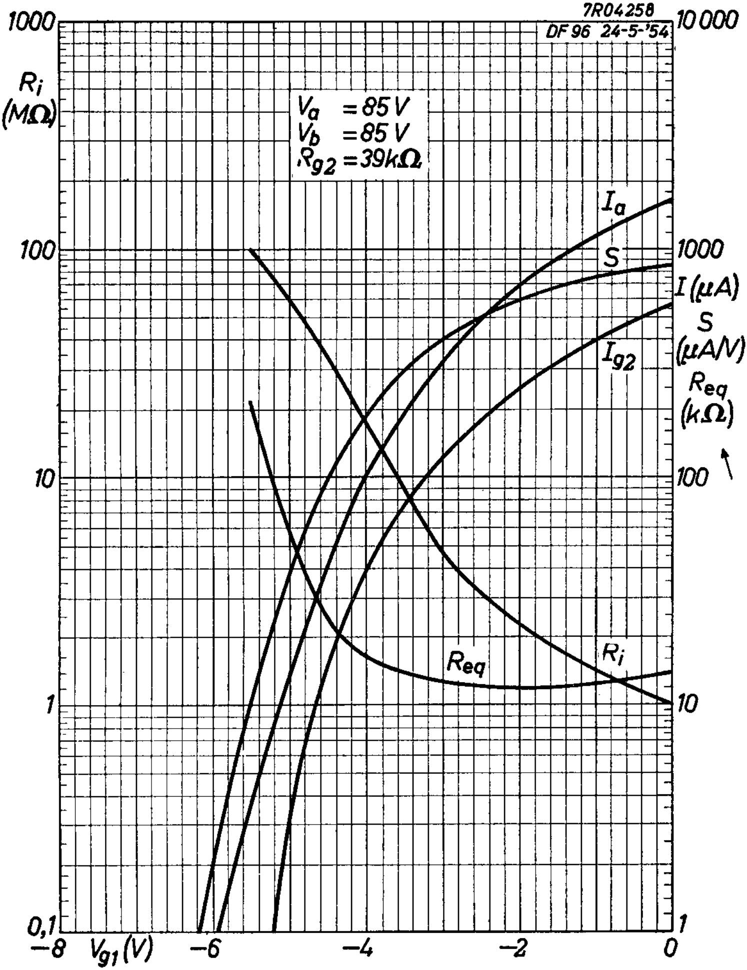
PHILIPS

DF 96



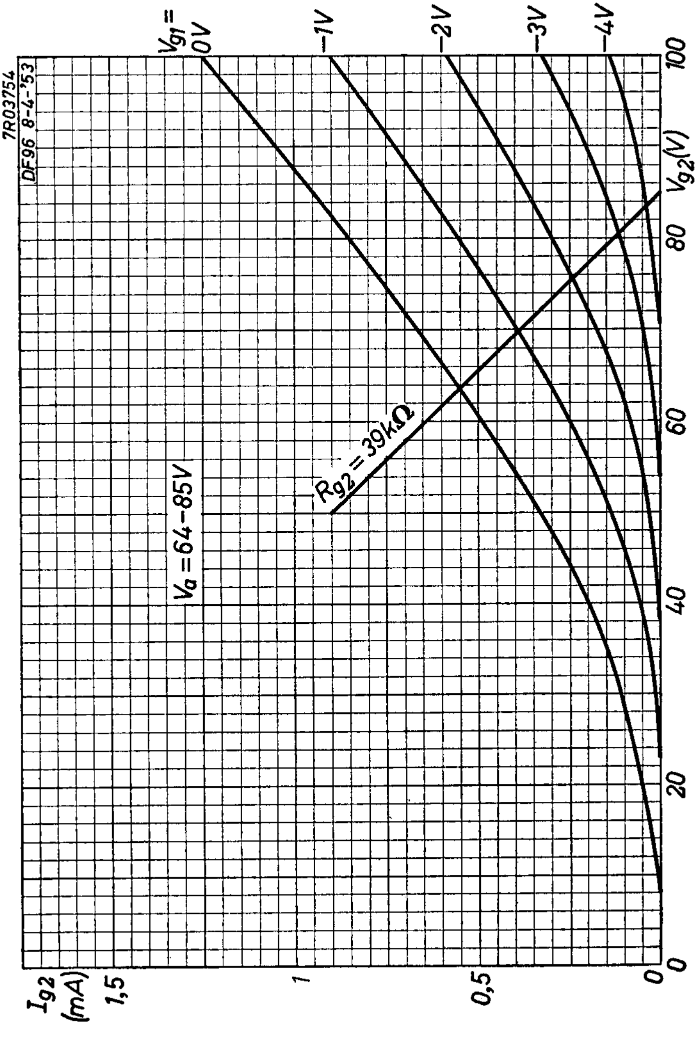
4.4.1953

E


7R04258
DF 96 24-5-'54
1000
100
10
1
0,1
R_i (MΩ)
10 000
1000
100
10
1
I (μA)
S (μA/V)
R_{eq} (kΩ)
V_a = 85 V
V_b = 85 V
R_{g2} = 39 kΩ
I_a
S
I_{g2}
R_{eq}
R_i
−8
V_{g1} (V)
−6
−4
−2
0

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F

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Electronic Tube

HANDBOOK

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2	1	1955.12.12
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4	2	1955.12.12
5	A	1953.10.10
6	B	1953.10.10
7	C	1954.06.06
8	C	1956.01.01
9	D	1954.06.06
10	D	1956.01.01
11	E	1953.04.04
12	E	1956.01.01
13	F	1956.01.01
14	FP	2000.03.10